## **Currently Pending Claims**

This listing of claims will replace all prior versions, and listings of claims in the application.

- 1. (Previously presented) An isolated polypeptide of the structure or formula  $S-(L)_n-B$  wherein:
- (a) S is selected from the group consisting of PTH(1-9)

  (AlaValSerGluIleGlnLeuMetHis) (SEQ ID NO: 1), PTH(1-5) (AlaValSerGluIle) (SEQ ID NO: 4) or PTH (1-11) (AlaValSerGluIleGlnLeuMetHisAsnLeu) (SEQ ID NO: 46);
  - (b) L is a glycine present n times;
  - (c) n is 5 to 10; and
  - (d) B is a carboxy terminal binding domain of PTH(1-34) or PTHrP(1-34), wherein said carboxy terminal binding domain binds to a PTH- receptor 1 molecule

wherein said polypeptide stimulates intracellular accumulation of cyclic cAMP.

## 2-4. (Canceled)

- 5. (Previously presented) The isolated polypeptide of claim 1, wherein L is selected from the group consisting of Gly<sub>5</sub>, Gly<sub>7</sub> and Gly<sub>9</sub>.
- 6. (Previously presented) The isolated polypeptide of claim 1, wherein B is selected from the group consisting of PTH(15-31) (LeuAsnSerMetGluArgValGluTrpLeuArgLysLys

LeuGlnAspVal) (SEQ ID NO:2), PTH(17-31) (SerMetGluArgValGluTrpLeuArgLysLysLeuGlnAspVal) (SEQ ID NO:63), PTHrP (15-31) (IleGlnAspLeuArgArgArgPhePheLeuHisHis LeuIleAlaGluIle) (SEQ ID NO:8), and PTHrP(17-31) (AspLeuArgArgArgPhePheLeuHisHis LeuIleAlaGluIle) (SEQ ID NO:12).

- 7. (Previously presented) An isolated polypeptide selected from the group consisting of: PG5 AlaValSerGluIleGlnLeuMetHisGlyGlyGlyGlyGlyGlyLeuAsnSerMetGluArg
  ValGluTrpLeuArgLysLysLeuGlnAspVal (SEQ ID NO:3), PG9:
  AlaValSerGluIleGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyLeuAsnSerMetGluArgValGluTrp
  LeuArgLysLysLeuGlnAspVal (SEQ ID NO:5), PG7: AlaValSerGluIleGlnLeu
  MetHisGlyGlyGlyGlyGlyGlyGlyGlySerMetGluArgValGluTrpLeuArgLysLysLeuGlnAspVal
  (SEQ ID NO:6), PrPG5: AlaValSerGluHisGlnLeuLeuHisGlyGlyGlyGlyGlyGlyIleGlnAspLeu
  ArgArgArgPhePheLeuHisHisLeuIleAlaGluIle (SEQ ID NO:64), PrPG9:
  AlaValSerGluHisGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyIleGlnAspLeu
  ArgArgArgPhePheLeuHisHisLeuIleAlaGluIle (SEQ ID NO:65) and PrPG7: AlaValSerGlu
  HisGlnLeuLeuHisGlyGlyGlyGlyGlyGlyGlyGlyAspLeuArgArgArgPhePheLeuHisHisLeuIleAla
  GluIle (SEQ ID NO:66).

- 9. (Original) The isolated polypeptide of claim 8 wherein there is a single amino acid substitution.
- 10. (Previously presented) An isolated polypeptide of the structure or formula S-(L)<sub>n</sub>-B wherein:
  - (a) S is X Val X Glu X X X His (SEQ ID NO: 42), wherein X is an amino acid;
  - (b) L is glycine and n equals 5-10; and
  - (c) B is a carboxy terminal binding domain of PTH(1-34) or PTHrP(1-34), wherein said carboxy terminal binding domain binds to a PTH-receptor 1 molecule, wherein said polypeptide stimulates intracellular accumulation of cyclic cAMP.
- 11. (Previously presented) An isolated polypeptide of the structure or formula S-(L) $_n$  B wherein :
  - (a) S is Ser Val Ser Glu Ile Gln Leu Met His (SEQ ID NO: 44);
  - (b) L is 5-10 glycine residues; and
  - (c) B is Leu Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val (SEQ ID NO: 45).

12-13. (Canceled).

14. (Previously presented) An isolated polypeptide encoded by a nucleic acid sequence selected from the group consisting of: SEQ ID NO:14, SEQ ID NO:15 and SEQ ID NO:16.

15-42. (Canceled)

and

- 43. (Currently amended) A compound of the structure or formula S-(L)<sub>n</sub>-B wherein:
- (a) S is selected from the group consisting of PTH(1-9)

(AlaValSerGluIleGlnLeuMetHis) (SEQ ID NO: 1), PTH(1-5)

(AlaValSerGluIle) (SEQ ID NO: 4) or PTH (1-11)

(AlaValSerGluIleGlnLeuMetHisAsnLeu) (SEQ ID NO: 46);

- (b) L is a linker molecule present n times;
- (c) n is an integer from 1-9; and
- (d) B is a carboxy terminal binding domain of PTH(1-34) or PTHrP(1-34), wherein said carboxy terminal binding domain binds to a PTH- receptor 1 molecule;

wherein said compound stimulates intracellular accumulation of cyclic cAMP;

wherein said linker molecule L is a glycine an aliphatic diamine.

- 44. (Previously presented) The isolated polypeptide of claim 7, wherein said polypeptide is modified to improve the solubility, absorption, or biological half-life of said polypeptide and wherein said modification is selected from the group consisting of the addition of  $C_{1-12}$  alkyl groups, the addition of  $C_{1-12}$  hydroxyalkyl groups, the addition of acyl groups, and lactam cyclization.
- 45. (Previously presented) The isolated polypeptide of claim 8, wherein said polypeptide is modified to improve the solubility, absorption, or biological half-life of said polypeptide and wherein said modification is selected from the group consisting of the addition of  $C_{1-12}$  alkyl groups, the addition of  $C_{1-12}$  hydroxyalkyl groups, the addition of acyl groups, and lactam cyclization.
- 46. (Previously presented) The isolated polypeptide of claim 1, wherein n is an integer from 5 to 9.